

DEAN'S OFFICE FILE

The Faculty of Medicine
Columbia University

POSTGRADUATE COURSES

in

CLINICAL MEDICINE

1971-1972

Opening Dates of Courses

*Spec 6/11
Kf 6/11
Serial
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1971-1972*

JUNE THROUGH DECEMBER, 1971

JULY 1	Pathology GM 1	OCT 2	Psychiatry PM 4
SEPT 9	Radiology PM 3	OCT 5	Psychiatry PM 6
SEPT 14	Psychiatry PM 3	OCT 6	Psychiatry PM 7
SEPT 15	Medicine PM 2	NOV 1	Obstetrics and Gynecology PM 1
SEPT 21	Radiology PM 1	NOV 10	Ophthalmology PM 1
SEPT 22	Radiology PM 21	NOV 17	Medicine PM 4
SEPT 27	Psychiatry PM 1	DEC 2	Orthopedic Surgery PM 2
SEPT 28	Medicine PM 6	DEC 6	Orthopedic Surgery PM 1
OCT 1	Psychiatry PM 2		

JANUARY THROUGH JULY, 1972

JAN 3	Urology PM 1	MAR 27	Surgery PM 102
JAN 8	Psychiatry PM 5	APR 4	Radiology PM 6
JAN 12	Radiology PM 20	APR 6	Medicine PM 100
JAN 31	Surgery PM 103	APR 10	Otorhinolaryngology PM 3
FEB 1	Radiology PM 4	APR 20	Radiology PM 10
MAR 1	Surgery PM 1	MAY 22	Neurology PM 3

1972 SPRING TERM Radiology PM 5
Radiology PM 7

The Faculty of Medicine of Columbia University

Postgraduate Courses
in
Clinical Medicine

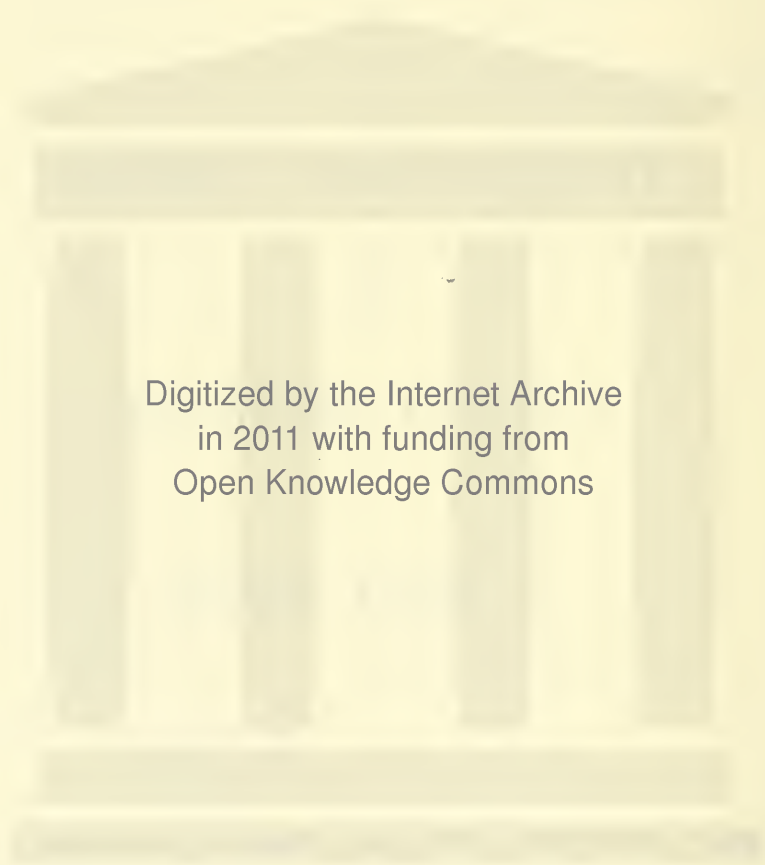
1971-1972

William J. McGill, Ph.D., L.H.D., LL.D. *President of the University*

Polykarp Kusch, Ph.D., Sc.D. *Executive Vice President for Academic Affairs
and Provost*

Paul A. Marks, M.D. *Vice President in Charge of Medical Affairs and Dean of
the Faculty of Medicine*

Melvin D. Yahr, M.D. *Associate Dean of the Faculty of Medicine*



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The Postgraduate Program

The Columbia postgraduate program enables practicing physicians in general medicine and in the various specialties to renew and continue their educational experiences in fields where medical research and daily clinical observations present constantly changing concepts of prevention, diagnosis, and treatment of diseases.

It must be stressed that the program is not intended to meet the needs of the physician who seeks to become a specialist. Nor is it intended to provide the foreign-trained physician with a broad understanding of medicine in the United States. These objectives are best achieved by residency training or by long-term, full-time courses. Information concerning residency training can be obtained by writing to the appropriate departmental chairman in the College of Physicians and Surgeons.

COURSES FOR GENERAL PRACTITIONERS

These courses acquaint the general practitioner with the latest advances in the various fields of medicine and emphasize diagnosis and treatment. Much of the instruction is carried out in small groups at the bedside and in the outpatient clinics. Ample clinical material is provided by conducting the courses at selected hospitals where the various related aspects of medical practice are stressed. In some courses, the facilities of several hospitals are used. No attempt is made to offer a complete curriculum at any one institution.

In association with the Harlem Hospital Center a program of bimonthly seminars for practicing physicians is offered on a no-fee basis and for credit with the American Academy of General Practice. No prior registration is necessary. Information on the time and place of these sessions is available at the Harlem Hospital Center (telephone: area code 212; 286-3300, extension 748).

COURSES FOR SPECIALISTS

Numerous short-term courses in subjects of interest and value to the specialist are listed alphabetically under the heading "For Specialists Only." The program of study is necessarily flexible. Long-term courses in two specialties are available: *Psychiatry PM 3* and *Pathology GM 1*.

► ADMISSION REQUIREMENTS AND PROCEDURES

All qualified men and women receive consideration for admission without regard to race, creed, color, or national origin.

An applicant must hold a Doctor of Medicine degree from a school of medicine approved by the University and must be a physician in good standing. Admission to courses headed "For Specialists Only" is limited to physicians who have had adequate preliminary training and experience in the related specialty.

Two application forms are printed on the last pages of this bulletin. *Both forms must be filled out in full and returned to Melvin D. Yahr, M.D., Associate Dean, College of Physicians and Surgeons, New York, N.Y. 10032.* The forms should be accompanied by a check made payable to Columbia University for the full tuition; the amount of the fee is included in the description of each course. Completed forms should reach the teaching center not later than two weeks before the opening date of the course.

All applicants will be asked to give social security numbers when registering in the University. Those who do not now have a number should obtain one from their local social security office well in advance of registration.

Note: According to Treasury decision 6291, under Section 162 of the 1954 Internal Revenue Code, income tax deductions are allowed in many instances for tuition and other educational expenses. Students are referred to the federal ruling on income tax deductions for teachers and other professional people seeking to maintain or improve skills required in their employment.

Applicants are reminded that hotel rooms, apartments, and other temporary living accommodations are almost impossible to find near any of the teaching centers. All the centers, however, are easily accessible from the midtown area, where such housing is more likely to be available. Students who wish to live near the Morningside campus of the University (in the vicinity of 116th Street and Broadway) may write for information to the Columbia University Registry of Off-Campus Accommodations, 401 West 117th Street, New York, N.Y. 10027. Some accommodations are available in the immediate vicinity of the Columbia-Presbyterian Medical Center in the medical students' residence hall. For information write to Bard Hall, 50 Haven Avenue, New York, N.Y. 10032, or telephone (area code 212) 923-6800.

The Columbia-Presbyterian Medical Center is accessible from the midtown area on the West Side by way of the Seventh and Eighth Avenue subways, both of which stop at 168th Street.

If an applicant is not accepted, or if a course applied for is canceled, refund will be made. *If a student withdraws later than ten days before the course begins, there will be no refund.*

► STATEMENTS OF ATTENDANCE

The courses listed in this bulletin do not constitute credit toward any degree, and no diplomas or certificates are awarded. A short statement of attendance will be issued on request. Students should write to the Assistant Registrar, 630 West 168th Street, New York, N.Y. 10032. Students who audit courses do not receive a statement of attendance.

► DEGREE PROGRAMS

Doctor of Medical Science. The University confers the Doctor of Medical Science (Med.Sc.D.) degree upon a few physicians who have a particular interest and competence in one of the basic science fields. *Only members of the staff of the Columbia-*

Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the selected basic science field is required. Additional requirements include passing a comprehensive examination, completing a significant, original research project, submitting a dissertation, and passing an oral examination.

Degree of Medical Science, Master of Science in human nutrition. The Faculty of Medicine offers a program of study in nutrition leading to the degree of Master of Science in Human Nutrition. Prerequisites required for admission are an M.D. degree from an approved medical school or a bachelor's degree from a college or university approved by Columbia University. Previous preparation in quantitative analysis, elementary organic chemistry, and elementary biochemistry is recommended for admission. Evidence of personal capability and fitness for this field is also a requirement. In addition to completing 32 credit points in prescribed courses or their equivalent, the candidate must devote three months full time to research work in nutrition and field work in human nutrition and submit a thesis or essay. This program is designed for those desiring to work in the clinical field of nutrition in health and disease.

Further information can be obtained from the Office of the Dean, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

► AFFILIATED HOSPITALS AT WHICH POSTGRADUATE COURSES ARE OFFERED

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

A permanent affiliation between Columbia University and the Presbyterian Hospital was established in 1921. The College of Physicians and Surgeons of Columbia University in conjunction with the Presbyterian Hospital and several other institutions comprising the Medical Center now occupy a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. The land, extending from West 165th Street to West 168th Street and from Broadway to Riverside Park, comprises about twenty acres and is readily accessible from all parts of the city.

The Medical Center was opened in 1928. The Medical Center group is as follows: College of Physicians and Surgeons; School of Dental and Oral Surgery; School of Public Health and Administrative Medicine; Department of Nursing; Washington Heights Health and Teaching Center; New York State Psychiatric Institute; Francis Delafield Hospital; the Presbyterian Hospital and its subdivisions—Squier Urological Clinic, the Institute of Ophthalmology, Harkness Pavilion, Sloane Hospital for Women, Vanderbilt Clinic, Babies Hospital, Neurological Institute and the New York Orthopaedic Hospital.

The Presbyterian Hospital was founded in 1868. The hospital occupies a twenty-two-story building in which are the wards of the medical and surgical services. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees on nomination by the Trustees of the University. There are 435 teaching beds (Sloane, Squier, Presbyterian).

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are 67 beds for the care of adults and 19 beds for babies and children.

The *Institute of Ophthalmology* was made possible by the generosity of Edward S. Harkness. It contains 37 ward beds and is devoted to the care and study of diseases of the eye.

Harkness Pavilion is available for private patients of the attending staff.

Sloane Hospital for Women, originally at West 59th Street and Amsterdam Avenue, was presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building for ward and semiprivate patients and two floors in Harkness Pavilion for private patients. The wards of the hospital furnish 116 beds for obstetrical and gynecological patients. There are about thirty-five hundred deliveries a year.

Vanderbilt Clinic, presented by the Vanderbilt family to the University in 1888, is the outpatient department for all the hospitals in the Medical Center.

Babies Hospital provides for general medical and surgical care of infants and children up to and including twelve years of age. It is used for the instruction of medical students and residents, but no formal postgraduate courses are offered.

Neurological Institute, one of the first nongovernmental hospitals in this country for the treatment of nervous diseases, was founded in 1909. The 104 ward beds are devoted exclusively to treatment of diseases of the nervous system. There are facilities for bedside teaching in the wards for undergraduate and graduate students.

New York Orthopaedic Hospital, established in 1868, was consolidated with the Presbyterian Hospital in 1945. It now occupies the fifth floors of the Presbyterian Hospital building and of Babies Hospital. There are 67 ward beds.

New York State Psychiatric Institute is a 176-bed hospital, built and maintained by the State of New York, with provisions for the study and treatment of all types of psychiatric disorders. There are special facilities for the treatment of children presenting behavior and personality problems. Connected with the hospital is an active outpatient department providing diagnostic and treatment facilities in psychiatric problems of both adults and children. The hospital maintains special clinical and research laboratories and an extensive psychiatric library.

Francis Delafield Hospital, built and maintained by the City of New York, is a 285-bed general hospital primarily devoted to the treatment and study of cancer.

OTHER AFFILIATED HOSPITALS USED FOR POSTGRADUATE TEACHING

St. Luke's Hospital Center, Amsterdam Avenue and 114th Street, consists of St. Luke's Hospital, founded in 1850, and the Woman's Hospital, founded in 1855. The institution has been affiliated with the College of Physicians and Surgeons since

1947, and its staff participates actively in the undergraduate and graduate teaching programs. The Center has 735 beds, of which 352 are available for teaching purposes.

Harlem Hospital Center, 136th Street and Lenox Avenue, was founded in 1887 and has 876 beds. It has been affiliated with the College of Physicians and Surgeons since 1962.

Courses of Instruction

The University reserves the right to withdraw or modify the courses of instruction or to change the instructors as may be necessary.

ANESTHESIOLOGY

Anesthesiology PM 1. Clinical anesthesiology—postgraduate refresher course

One month throughout the year excluding July and August. \$500.

Dr. S. H. Ngai and staff. Limited to two students.

Practical instruction in clinical anesthesiology for anesthesiologists. Actual participation in anesthesiology care of surgical patients; inhalation therapy and intensive care cases under direct supervision. Special areas of instruction include pediatric, obstetrical, and neurosurgical anesthesia. Participation in all didactic exercises of the department and individual instruction in newest concepts and practice of anesthesia. For those with specialist's training in anesthesiology.

INTERNAL MEDICINE

Medicine PM 2. Seminars in cardiorespiratory physiology

Wednesdays, 4:30–5:30. Sept 15, 1971–June 7, 1972. No fee.

Dr. P. Cannon (*seminar chairman*), Columbia-Presbyterian staff members, and invited guests. Columbia-Presbyterian.

Open to physicians with clinical, investigative, and teaching interests in medicine, physiology, pharmacology, and anesthesiology.

A critical review of the latest advances in the field and the questions they raise. Maximum class, thirty.

Medicine PM 4. Clinical electrocardiography

Eight days, 12–1. Nov 17, 18, and Dec 1, 2, 8, 9, 15, 16, 1971. \$150.

Dr. M. Irene Ferrer. Columbia-Presbyterian, Hanger Amphitheater (P & S Building).

Open to physicians with a special interest in electrocardiography. Lectures on the background of normal electrophysiology and important abnormalities of the electrocardiogram.

Medicine PM 5. Advanced clinical electrocardiography

Schedule arranged individually. Four to six weeks, half days. \$200.

Dr. M. Irene Ferrer. Columbia-Presbyterian.

Prerequisite: *Medicine PM 4*.

Open to a limited number of physicians after personal interview.

Candidates must have certification by the American Board of Internal Medicine.

A practical course in clinical electrocardiography. Records are correlated with clinical conditions.

Medicine PM 6. Combined staff clinics

Tuesdays, 4–5:30. Sept 28, 1971–Apr 25, 1972. No fee.

Drs. H. Aranow, Jr., E. Carwile LeRoy, and staff, and invited guests from other medical centers. Columbia-Presbyterian.

Open to physicians with the M.D. degree. Preregistration is not required.

Conferences organized by the Department of Medicine to consider new concepts in biological science and in clinical medicine, and to demonstrate their relationships in specific disease states.

Medicine PM 100. Clinical nutrition and metabolism

Three days, Th–Sat 9–12 and 1–4. Apr 6–8, 1972. \$75.

Drs. T. B. Van Itallie, W. H. Sebrell, Jr., S. A. Hashim, and associates. St. Luke's.

Integration of clinical manifestations of nutritional and metabolic diseases, with the underlying biochemical, physiologic, and histologic lesions. Disorders considered include obesity, diabetes, atherosclerosis, hyperlipidemia, malabsorption, and selected instances of primary and secondary malnutrition encountered in the United States. Modern trends in treatment are reviewed. Discussions are oriented to case presentations. Maximum class, ten; minimum class, four.

NEUROLOGY**Neurology PM 3. Pediatric neurology**

Five days, Mon–Fri 9–5. May 22–26, 1972. \$200.

Professor S. Carter and staff. Columbia-Presbyterian.

Limited to specialists in neurology, pediatrics, child psychiatry, or neurosurgery.

A seminar on the nervous system in childhood; clinical demonstrations, panels, and discussions on clinical problems; anatomy and physiology of the developing nervous system.

OBSTETRICS AND GYNECOLOGY**Obstetrics and Gynecology PM 1. Recent advances in obstetrics and gynecology**

Five days, Mon–Fri 8–5:30. Nov 1–5, 1971. \$150.

Drs. R. Vande Wiele, C. M. Steer, E. W. Munnell, R. M. Richart, and associates. Columbia-Presbyterian.

The major clinical and pathological problems pertaining to the female reproductive system. Recent advances and currently used techniques are emphasized, including descriptions of some experimental approaches. A review of gynecologic pathology is included. This course is also designed as a refresher for those taking Obs-Gyn Boards the following week.

OPHTHALMOLOGY**Ophthalmology PM 1. Eye surgery**

Three days, Wed 2–5 and Th–Fri 9–5. Nov 10–12, 1971. \$150.

Dr. A. G. DeVoe and associates. Columbia-Presbyterian.

Open to residents and ophthalmologists.

Emphasis on current techniques and recent advances in ophthalmic surgery. Five divisions to the course emphasize the following areas: cornea, glaucoma, cataracts, retina, and the orbit. Distinguished guest speakers. Formal presentations and discussion periods.

Ophthalmological radiology: see *Radiology PM 10*.

ORTHOPEDIC SURGERY**Orthopedic Surgery PM 1. Orthopedic surgery and pathology**

Twelve days, Mon–Fri 8–8. Dec 6–17, 1971. \$250.

Drs. F. E. Stinchfield, A.D. Johnston, and A. Garcia. Columbia-Presbyterian.

Intensive course in orthopedic surgery. Designed for specialists and other physicians interested in musculoskeletal disease.

Seminars, lectures, and anatomical demonstrations on anatomy, biochemistry, physiology, hand surgery, adult and children's orthopedics, trauma, prosthetics and orthotics, bio-mechanics, and physical therapy, as they apply to orthopedic surgery. The pathology section presents an intensive review of skeletal-muscular diseases in a daily series of laboratory exercises including diagnostic identification of unknown tissue sections, gross specimens, and projected kodachrome reproductions of microscopic, roentgenographic, and macroscopic material. Demonstration, didactic discussion, and oral quizzes in small groups. Microscope required.

Orthopedic Surgery PM 2. Scoliosis

Three days, Th–Fri 8–6 and Sat 8–12 noon. Dec 2–4, 1971. \$150. (Residents, \$75).

Dr. H. A. Keim and guest lecturers. Columbia-Presbyterian.

Intensive course in diagnosis and management of scoliosis. All aspects are covered and presented by various leaders in the field. Etiology, classification, roentgen diagnosis, and all forms of treatment are discussed. Use of the Milwaukee brace, spinal instrumentation, halo-femoral traction, and surgical techniques with complications are also presented. In addition to didactic lectures, open discussion periods are held.

OTOLARYNGOLOGY**FOR SPECIALISTS ONLY****Otorhinolaryngology PM 3. Head and neck surgery**

One week, Mon–Fri 8–5 and Sat 8–12. Apr 10–15, 1972. \$300.

Dr. J. Conley and associates. Columbia-Presbyterian.

Open to otolaryngologists and general surgeons whose surgical background and opportunities permit them to undertake further training in major surgery of the head and neck.

Surgery in the operating room, cadaver material, and formal lectures by a diversified composite staff are used to illustrate the standard operations and to cover the essential aspects of tumor biology in the head and neck. Maximum class, fifteen.

PATHOLOGY**Pathology GM 1. Surgical pathology**

Four, six, or twelve months beginning on the first day of any month between July 1, 1971, and July 1, 1972. Full time. \$200 for four months; \$300 for six months; \$600 for twelve months.

Professor R. Lattes. Columbia-Presbyterian.

Admission through preliminary interview.

Integral part of the training of graduate students pursuing advanced studies in surgery and pathology. Students participate in the activities of the surgical pathology section at the College of Physicians and Surgeons and various units of the Medical Center.

PEDIATRICS

Pediatric neurology: see *Neurology PM 3*.

PSYCHIATRY**Psychiatry PM 1. Symposium on neurology and psychiatry**

Ten weeks, Mon–Fri 9–5. Sept 27–Dec 3, 1971. \$450.

Drs. L. C. Kolb, J. H. Ryan, and the staffs of the New York State Psychiatric Institute and the Neurological Institute. Columbia-Presbyterian.

Open only to physicians who have had considerable previous training and experience in neurology and psychiatry. Physicians on the staffs of institutions under the New York State Department of Mental Hygiene are admitted without payment of tuition or registration fees.

The symposium—a review of neurology and psychiatry—is made up of courses grouped under the four general headings below. These courses may not be taken individually. A detailed schedule of classes may be obtained on request.

A. Basic Neurology. Drs. A. Gold, M. Kaufman, L. V. Lyons, and L. Rozin.

A course in neuroanatomy, presenting essential anatomical and associated neurophysiological features of the spinal cord and brain. The course on basic neurophysiology deals with the functional relationship of the various portions of the nervous system which are especially related to neural disturbances found in certain neurological and psychiatric disorders. Clinical neurophysiology (electroencephalography) is correlated with clinical observations. A special course given on the physiology

of the autonomic nervous system in the light of psychosomatic concepts. The course in neuropathology consists of lectures and demonstrations of gross specimens and microscopic slides. Correlation between clinical findings and pathological lesions is taken into consideration. Demonstrations include presentation of microscopic and gross material illustrating the lecture material.

B. Clinical Neurology. Dr. M. Yahr and staff.

Clinical lectures and demonstrations illustrating the chief organic diseases of the nervous system. The technique of neurological examination, explaining the significance of neurological signs and symptoms. Therapy in neurology includes the various types and methods used in the treatment of nervous diseases with special reference to physiotherapeutic and occupational therapy methods. The roentgenographic interpretations of the diseases affecting the nervous system consist of study of the various lesions affecting the skull and intracranial contents and spinal cord. Emphasis on electroencephalography.

C. Basic Psychiatry. Drs. A. Carr, H. Hunt, J. Rainer, M. Rapport, and W. Thetford.

Lectures on intelligence, memory, perception, etc., and psychological testing procedures. Psychodynamics acquaints the student with levels of psychological organization, conscious and unconscious integration, and motivation of psychic action. Comparative psychodynamics investigates the theoretical and therapeutic principles of the different psychoanalytic and psychotherapeutic schools. Genetics and mental disease consist of a description of basic genetic laws and theories, plus modern research methods and the genetics of schizophrenia, manic depressive psychosis, and other mental disorders. Special lectures on new advances in chemistry and medicine in relation to neurochemistry.

D. Clinical Psychiatry. Drs. S. Arieti, H. Brill, R. Campbell, O. Diamond, A. Foley, S. H. Frazier, G. A. Jervis, L. Kalinowsky, L. C. Kolb, W. S. Langford, S. Malitz, L. Moses, P. Polatin, J. Ryan, and C. Socarides.

History and somatogenic and psychogenic aspects of the different psychiatric disorders, correlating the best known theories and practices. Integrates the lectures on basic psychiatry with diagnosis, prognosis, and therapy. A similar course is given on child psychiatry from the same point of view. The lectures on therapy are subdivided as follows: (1) the practice of psychoanalysis, a survey of the chronological development of Freud's conception of psychoanalysis and discussion of the clinical application of psychoanalysis to the study and treatment of neurosis and psychosis; (2) non-analytic forms of psychotherapy, which discusses suggestions, hypnosis, and other forms of psychotherapy from a psychodynamic point of view. Organic therapy, shock treatment, psychopharmacologic agents—tranquilizers, antidepressant drugs, etc.—are discussed. Legal psychiatry covers the forensic aspects, commitment, court procedures, and the relationship of criminology to psychiatry. Mental hygiene and community psychiatry consider preventive psychiatry from the earliest period of life to the adult years.

Psychiatry PM 2. The basic psychological sciences

Fridays, 9–5. Oct 1, 1971–May 12, 1972. \$300.

Drs. J. Ryan, L. Roizin, L. Lyons, L. Hamilton, and J. Rainer. Columbia-Presbyterian.

Designed for first- and second-year-level residents in psychiatry. The program provides for basic psychobiological sciences, clinical aspects of psychiatry, lectures in neuroanatomy and neuropathology, interview techniques, and genetics, as well as many other areas of interest. These lectures are presented at the New York State Psychiatric Institute.

Psychiatry PM 3. Adult and child psychiatry

Tuesdays, 9–5. Sept 14, 1971–June 6, 1972. \$1,200.

Drs. A. Ballard, J. Cedarquist, H. Davidson, W. Hunt, R. MacKinnon, L. Moss, J. O'Connor, and A. Polatin. Columbia-Presbyterian.

Residency training on a third-year level in the combined program of the New York State Psychiatric Institute and Presbyterian Hospital. This program provides for psychiatric treatment of adults and children in an outpatient department. Personal supervision of individual cases as well as conferences and seminars are conducted by the members of the staff. This course is open to physicians who have completed two years of training in the program provided by the New York State Department of Mental Hygiene.

Psychiatry PM 4. Medical hypnosis (basic)

Seven Saturdays, 10–1 and 2–5. Oct 2–Nov 20, 1971, omitting Oct 9. \$175.

Dr. H. Spiegel. Columbia-Presbyterian.

Open to all physicians. A personal interview may be required for admission. Limited registration.

Lectures, case demonstrations, practice sessions, movies, television, slides, and seminars designed to

present techniques and theories of hypnosis and to demonstrate the practical adjunctive uses of hypnosis in clinical medicine from the perspectives of diagnosis, therapy, and research.

Psychiatry PM 5. Hypnosis and psychiatry

Four Saturdays, 10-1 and 2-5. Jan 8-29, 1972. \$100.

Dr. H. Spiegel. Columbia-Presbyterian.

Open only to psychiatrists. Prerequisite: *Psychiatry PM 4* or the equivalent. A personal interview may be required for admission. Limited registration.

Lectures, seminars, and case material to elaborate the various techniques with which hypnosis can facilitate the psychotherapeutic process.

Psychiatry PM 6. Psychiatry in medical practice

Schedule arranged individually. Four hours a week. Oct 5, 1971-June 13, 1972. No fee.

Drs. L. C. Kolb, R. MacKinnon, A. Levay, J. Katis, and staff. Columbia-Presbyterian.

Open to all practicing physicians. Full credit from American Academy of General Practice.

Weekly seminars, case demonstrations, videotaped interviews, and personal supervisory sessions, designed to enhance the skill of general practitioners and specialists to diagnose and manage psychiatric problems encountered in their practice. Maximum class, ten.

Psychiatry PM 7. Management of emotional problems in office practice

Hours to be arranged on Wednesdays. Oct 6-Dec 15, 1971, omitting Nov 24. \$50.

Drs. A. Levay, R. MacKinnon, J. Katis, and members of AAGP. Columbia-Presbyterian.

Ten two-hour seminars, centering around live and videotaped case presentations from the practices of family physicians, dealing with the management of commonly encountered emotional problems in office practice. Special emphasis on short-term methods such as the techniques of Masters and Johnson in treating marital sexual disorders.

PSYCHIATRY—COMMUNITY AND SOCIAL PSYCHIATRY

Specialized training in community and social psychiatry, degree and non-degree, is offered by the Division of Community and Social Psychiatry under the joint auspices of the Department of Psychiatry and School of Public Health and Administrative Medicine. Five categories of training and individualized curricula are available. The training is primarily designed for physicians, at various levels of psychiatric training and experience, to provide them with the necessary background for assuming responsibility for implementation of comprehensive community mental health services, with an emphasis on program planning, administration, consultation, social psychiatry research, and program evaluation. Detailed information about this training opportunity is available upon request from the Director, Division of Community and Social Psychiatry, 112 Black Building, 630 West 168th Street, New York, N. Y. 10032.

PSYCHOANALYSIS

Specialized training of four years' duration in psychoanalysis is offered at the Psychoanalytic Clinic for Training and Research of the Department of Psychiatry, Faculty of Medicine. A special bulletin regarding this training may be obtained upon request to the Director of the Psychoanalytic Clinic, 722 West 168th Street, New York, N.Y. 10032.

PUBLIC HEALTH

Selected courses in public health and administrative medicine, including hospital administration, are available at the School of Public Health and Administrative Medicine, Columbia-Presbyterian Medical Center. For a special bulletin and further information, write to the Director, School of Public Health and Administrative Medicine of the Faculty of Medicine, 600 West 168th Street, New York, N.Y. 10032.

RADIOLOGY**Radiology PM 1. Radiologic physics**

Fifteen weeks, Tu and Th 5–6. Sept 21, 1971–Jan 27, 1972, omitting Nov 2, 25, Dec 21–23, 28, and 30. \$50.

Dr. P. Goodwin. Columbia-Presbyterian.

The production, measurement, and control of x-rays and the rays from natural radioactive substances, particularly the application of these measurements to radiology. Specification and determination of radiation doses, in theory and practice. Review of the properties of radioactive isotopes of direct significance in medical diagnosis and therapy. Radiation hazards and protection against them.

FOR SPECIALISTS ONLY**Radiology PM 3. Radiology of bones and joints**

Twelve Thursdays, 7–8:30 p.m. Sept 9–Dec 9, 1971, omitting Sept 30 and Nov 25. \$75.

Dr. M. Alpert, associates, and guest lecturers. Columbia-Presbyterian.

Lectures covering principles of the normal and abnormal appearance of the skeleton and its relationship to various diseases. The differential diagnosis of radiologic alterations of the skeleton is emphasized.

Radiology PM 4. Physics of diagnostic radiology

Eight weeks, Tu and Th 4:30–6. Feb 1–Mar 23, 1972. \$75.

Drs. S. Hilal, W. Seaman, P. Goodwin, and staff. Columbia-Presbyterian.

The fundamental principles of the production and absorption of x-rays, as related to diagnostic radiology. Presentation of the physical principles involved in fluoroscopic and intensifying screens, grids, and film emulsion. Factors influencing the contrast, resolution, and sharpness of x-ray image. Principles of film processing, statistical theory of x-ray image formation and perception, and discussion of the physical aspects of laminography, cine, xero radiography, and clinical exposure systems. A discussion of the radiation hazard involved in diagnostic radiology.

Radiology PM 5. Technical aspects of special procedures in radiology

Four days in spring 1972 to be arranged.

Drs. S. Hilal, K. Ellis, and associates. Columbia-Presbyterian.

Radiology PM 6. Nuclear medicine

Eight weeks, Tu and Th 5–6. Apr 4–May 25, 1972. \$75.

Drs. P. M. Johnson, J. A. Reilly, P. N. Goodwin, and staff. Columbia-Presbyterian.

Open to physicians with some experience or training in nuclear medicine. Formal lectures by a diversified composite staff, emphasizing medical diagnostic, therapeutic, and investigative uses of radioactive isotopes, together with protection and safe handling of these agents.

Radiology PM 7. Radiology of the gastrointestinal tract

Three days, Wed–Fri 9–5. Spring 1972. \$100.

Dr. W. Seaman and staff. Columbia-Presbyterian.

A review of recent advances in the radiology of the gastrointestinal tract.

Radiology PM 9. Radiology of the head and neck. Not given in 1971-1972; to be given in 1972-1973.

Radiology PM 10. Ophthalmological radiology

Three days, Th-Fri 9-5 and Sat 9-1. Apr 20 22, 1972. \$100.

Dr. G. D. Potter and associates. Columbia-Presbyterian.

This course is designed for radiologists and ophthalmologists.

The normal anatomy of the orbit as seen on roentgenographic views, including the special case of the optic canal. Tomography as a special technique and contrast studies of the orbit. Radiologic-ophthalmologic correlation of congenital abnormalities, trauma to the orbit, inflammatory and infectious conditions, exophthalmos, and benign and malignant tumors of the eye.

Radiology PM 20. Radiotherapy

Twenty-four Wednesdays, 8-9 a.m. Jan 12-June 21, 1972. \$100.

Dr. C. Chang and associates. Columbia-Presbyterian.

A series of didactic lectures covering the principles, techniques, and results of clinical radiotherapy.

Radiology PM 21. Radiobiology

Twelve Wednesday, 8-9 a.m. Sept 22-Dec 15, 1971, omitting Dec 1. \$75.

Dr. E. J. Hall. Columbia-Presbyterian.

This course is designed for radiology residents and graduate students in the life sciences.

The effects of ionizing radiations on living systems from cells in culture to the whole animal, with special reference to results of relevance to radiation therapy.

SURGERY

Surgery PM 1. Vascular surgery

Three days, Wed-Fri 9-4. Mar 1-3, 1972. \$200.

Drs. A. Voorhees, F. McAllister, and guest lecturers. Columbia-Presbyterian.

Organ revascularization: diagnosis and treatment with particular emphasis on peripheral, splanchnic, cerebral, and coronary flow.

Surgery PM 102. Recent advances in general surgery

Five days, Mon-Fri 9-2:30. Mar 27-31, 1972. \$150 (Residents, \$75).

Dr. H. F. Fitzpatrick and staff of St. Luke's Hospital Center. St. Luke's Hospital.

Open to physicians who have completed their training or who are in surgical residency training.

Emphasis on recent advances in the diagnosis and treatment of common surgical problems, including shock, burns, infections, gastrointestinal hemorrhage, jaundice, trauma, and intestinal obstruction.

A panel reviews the primary treatment of breast carcinoma as well as the endocrine and surgical treatment of advanced and recurrent disease. The diagnosis and treatment of cardiac and pulmonary failure in surgical patients includes a detailed presentation of the use of respirators. Other subjects covered: indications for whole blood and packed red blood cell transfusions and other intravenous therapy, including hyperalimentation; problems and advances in hemodialysis, tissue typing, and organ transplantation. Maximum class, one hundred.

Surgery PM 103. Plastic and reconstructive surgery

Three days, Mon-Wed 9-5. Jan 31 and Feb 1-2, 1972. \$150.

Plastic surgical staff and graduates of St. Luke's Hospital Center. St. Luke's Hospital.

Open to plastic surgeons and those in training.

Basic science background of clinical problems is stressed as well as techniques and solutions to difficult clinical situations. The areas covered include surgical anatomy of the head and neck and hand, skin pathology, anesthesia in plastic surgery, etiological considerations in congenital malformation, cleft lip and palate, free and pedicle transplants, maxillofacial trauma, reconstruction of the head and neck and hand, carcinoma of the head and neck, surgery of the breast for nonmalignant conditions, genito-urinary plastic surgery, surgery of the hand, surgery of the lower extremity, aesthetic surgery, and the treatment of burns.

UROLOGY**Urology PM 1. Urological pathology**

Ten days, Mon and Th 3–6:30. Jan 3–Feb 3, 1972. \$150.

Drs. M. M. Melicow and M. Tannenbaum. Columbia-Presbyterian.

The pathology of the genito-urinary tract, the adrenal glands, and the retroperitoneum is explored in detail, with illustrated lectures and demonstrations. Particular attention to the study of gross specimens and microscopic sections, and of urine sediments and cultures. Maximum class, thirty-five. In addition to the fee, students are required to make a \$200 deposit at the first class for two boxes of slides and a descriptive book. This money is refunded when the boxes of slides and book are returned in good condition at the end of the course. Students must furnish their own microscopes and lamps.

Before filling in the application forms, please read the instructions on page 4.

COLUMBIA UNIVERSITY • FACULTY OF MEDICINE

Application for Admission to Postgraduate Courses

(Submit in Duplicate)

Date

Name
(Last Name) (First Name) (Middle Name)

Address Telephone

Soc. Sec. No.

Age Sex Citizenship

Medical school Date of degree

Licensed to practice medicine in (year) State

Internships:
(Hospital) (Service) (Dates)

Residencies:
(Hospital) (Service) (Dates)

Practice (indicate whether general or confined to a specialty)

Specialty board certification and present hospital affiliations:

I desire to apply for admission to the following course:

.....
(Course Number) (Title of Course) (Dates)

I enclose my check for \$, the amount of the full tuition (the check should be made payable to Columbia University).

The registration of the undersigned and his continuance upon the rolls are subject to all rules and provisions set forth in the statutes and bulletins of the University.

(Signature)

COLUMBIA UNIVERSITY • FACULTY OF MEDICINE

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(Signature)

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